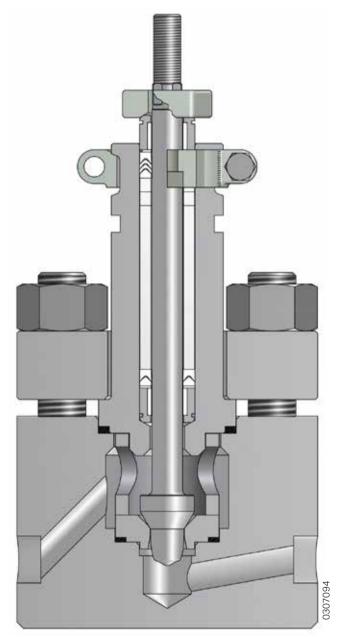


BAR-STOCK
GLOBE
CONTROL VALVE
BODY SUBASSEMBLY









Body Subassembly

The globe control valve of ValtekSul, GLB model, presents an efficient solution to the manufacturing and supply of low and high pressure control valves made of metal alloys that result in delivery difficulties inherent to the casting process. Made of forged materials, it is generally supplied with 1/2 to 2 inches diameter, although can be configured with diameters of up to 6 inches.

It preserves the advanced manufacturing characteristics of the GLs and GLH globe valves, such as the plug's double guided system, no contact between the plug and seat retainer, "top-entry" assembly, the high performance and long lifespan piston-cylinder actuator, together with the new generation of Chronos digital positioners.

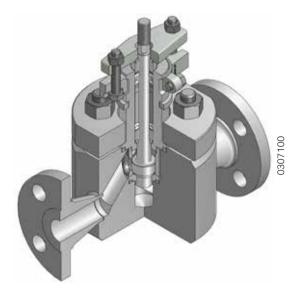
GLB - Body Subassembly Characteristics and Advantages

- Forged steel bodies:
 - Eliminates the inconveniences of casting cycles.
 - Facilitates fast deliveries in exotic alloys.
- Versatile:
 - Globe, three-ways, angle-style, steam-jacketed bodies.
 - Multiple setting bodies.
 - Manufactured in a wide range of forged metal alloys.
 - Bodies with connections, screwed, flange and/or socketweld.
- Easy to adapt face-to-face dimensions of body in multiple settings.
- Manufacturing with corrosion resistant materials available.
- High pressures.
- Anti-cavitation trims.
- Noise reduction trims.
- Oversized plug stems:
 - Provide great operational stability.
- Bonnet settings: standard, extended, extended for cryogenics or metal bellows.
- Top-entry trims assembly:
 - Easy maintenance.
- All sets of trims, seat rings and plugs are interchangeable with the GLs and GLH globe valves.
- Great depth of the packing box:
 - Permits the installation of all packing box models of ValtekSul.
- Piston-cylinder actuators, with spring return.
 - High thrust and pneumatic stiffness.
 - Precise positioning with high response levels.
- Chronos digital positioners.

Standard Manufacturing Materials

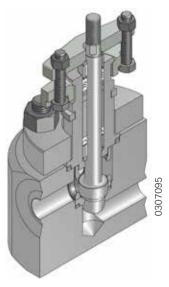
Component	Material
Body & Bonnet	Stainless Steel AISI 304; 304L; 316; 316L; Duplex; Super-Duplex Chromium-molybdenum Steel; Monel; Alloy 20 Nickel; Inconel; Hastelloy "B" or "C" Titanium
Bonnet Flange	Carbon Steel; Stainless Steel
Plug & Seat Ring	Stainless Steel AISI 316 (UNS S 31600) or same material as body
Retainer	Stainless Steel AISI 316 (UNS S 31600) or same material as body
Packing	PTFE "V" Rings; PTFE (1); Grafoil Fugitive Emissions Packing
Bonnet and Seat Ring Gaskets	Stainless Steel and Grafoil Spiral-wound, Teflon

GLB - Body Subassembly Body Styles



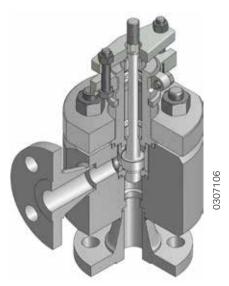
In-line Globe Body

Body settings aligned with pipe design. All trims sets (plug, seat ring, retainer) are interchangeable with the other body configurations (angle-style, off-set, etc). Many components are interchangeable with the GLs and GLH models at their respective pressure classes.



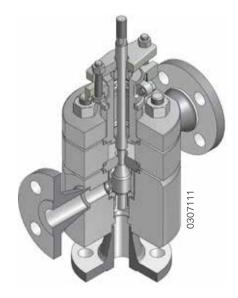
Off-Set Globe Body

When input/output connections with different alignment is required, this setting provides significant costs reduction. All trim sets are interchangeable with the GLs and GLH models.



Angle-style Globe Body

With this setting, only the body is not interchangeable with the inline globe valve. All the other components are identical. The output connection can be bigger than the input on high-pressure drops through the valve. It can be manufactured with Venturi seat rings as an element of body protection.



Three-ways Globe Body

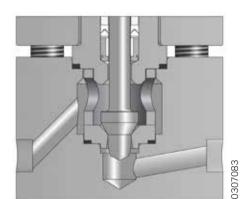
This body setting permits its application for fluids controls in either diverging (one input and two outputs) or converging (two inputs and one output) operations. Excepting for the plug, upper seat ring, three-ways adaptor and upper seat ring gaskets, all other components are interchangeable with the models GLs and GLH.

GLB - Body Subassembly Gaskets, Clamps

Gaskets

The GLB Series was designed with the bonnet and the seat ring gaskets fully retained. The valve bonnet has a step that acts as mechanic stop and limits gasket compression. In this way, the bonnet gasket remains completely sealed and its compression is determined by the gasket step on the bonnet. The body, seat retainer and seat ring are all machined with close tolerances to provide proper gasket compression.

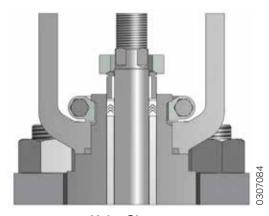
Unlike the bonnet, the seat ring does not directly touch the body (metal-to-metal), allowing this small clearance to compensate for manufacturing tolerances and thermal expansion.



Body Gaskets

Clamps

The GLB Series actuator is usually attached to the valve with two investment casting stainless steel yoke clamps. Each clamp has an inclined plain surface which, when bolted together, securely fastens the actuator yoke to the bonnet. Unlike conventional threaded clamps, the clamp design of the GLB valve permits easy removal, even under extremely corrosive conditions.



Yoke Clamps

Gasket Specifications

	Body Material	Gasket Type	Gasket Material	Opera	ax. Itional Prature	Min. Operational Temperature		
			Material	°F	°C	°F	°C	
	Carbon Steel	Spiral-wound	304 SS/AFG (3)	750	400	-20	-29	
	Chrome-Moly Steel	Spiral-wound	316L SS/AFG (3)	1000	538	-320	-196	
Standard Gaskets	316 Stainless	Flat	PTFE	350	177	-200	-130	
	Steel (UNS S 31600)	Spiral-wound	316L SS/AFG (3)	1000	538	-320	-196	
	Other Metal Alloys	Flat	PTFE	350	177	-200	-130	
		Flat	KEL-F (2)	350	177	-320	-196	
		Flat	PTFEG	450	232	-200	-130	
Alternate Gaskets	As requested	Flat	AFG (3)	600	315	-20	-29	
		Spiral-wound	316L SS/Grafoil (1)	1500	815	-320	-196	
		Hollow O-Ring	Inconel X-750	1500	815	-20	-29	

⁽¹⁾ Limited to 800°F (426°C) for oxidizing service.

⁽²⁾ Lower temperatures available upon request.

⁽³⁾ Asbestos-free.

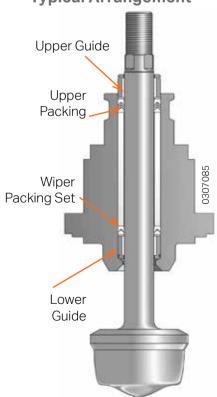
GLB - Body Subassembly Packing and Guides

Packing Box

The GLB valve packing box is deep and presents perfect superficial finishing, allowing the assembly of all ValtekSul standard packing options, with the following additional advantages:

- The spacing between the wiper set and the main upper packing set, responsible for the sealing, prevents contact between the wet parts of the plug stem and upper packing set.
- 2. Two widely spaced guides, placed out of the flow stream, combined to the strong plug stem, form the advanced guiding system of the GLB Series. The upper packing also acts as gland packing, and the lower guide is situated close to the plug head, ensuring accurate alignment of plug and seat ring.

Guides and Packing Box Typical Arrangement



Packing Set Temperature	Limitation

Bonnet			ıre Limits ⁽²⁾		
Туре	Packing Material	٥F	°C		
	PTFE "V" Ring	-20 to 450	-29 to 232		
	PT and PTG	-20 to 450	-29 to 232		
	Braided PTFE	-20 to 500	-29 to 260		
Standard (1)	PTFE w/ fiber glass (PTFEG)	-20 to 500	-29 to 260		
Standard	PTG XT	-20 to 550	-29 to 288		
	Graphite/AFP (3)	-20 to 800	-29 to 427		
	Graphite/AFP ⁽³⁾ with Inconel wire	-20 to 800	-29 to 427		
	Graphite ⁽³⁾	-20 to 800	-29 to 427		
	PTFE "V" Ring	-150 to 700	-100 to 371		
	PT and PTG	-20 to 600	-29 to 315		
	Braided PTFE	-150 to 600	-100 to 315		
	PTFE w/ fiber glass (PTFEG)	-150 to 700	-100 to 371		
Extended (1)	PTG XT	-20 to 800	-29 to 427		
	Graphite/AFP ⁽³⁾	-20 to 1200	-29 to 650		
	Graphite/AFP (3) with Inconel wire	-20 to 1200	-29 to 650		
	Graphite ⁽³⁾	-20 to 1500	-29 to 816		
Cryogonia (1)	PTFE, with 15 or 18 in. extension	-320	-196		
Cryogenic (1)	PTFE, with 24 or 27 in. extension	-425	-253		

⁽¹⁾The ANSI B16.34 standard specifies acceptable pressure and temperature limits for pressure retaining materials. Contact ValtekSul for additional information on pressure/temperature limits of the packing materials. ⁽²⁾ Acceptable limits once the pressure/temperature limits of the valve body, bonnet and components are respected. ⁽³⁾ Do not use graphite above 800°F (427°C) in oxidizing service such as air or oxygen. The use of graphite packing may require oversize actuators or heavier springs due to added friction.

Temperature and Pressure Guides Limitation

•			
Guide	Temperat	ure Limits	Pressure Limits
Materials	°F	°C	
Stainless Steel	-320 to 1500 ⁽³⁾	-196 to 816 ⁽³⁾	Up to 1000 psi (69 bar) up to 2 in.
Graphite Lined (3)	-320 to 1500 (9)	-190 10 616	Up to 600 psi (41.4 bar) to 3 and 4 in.
Stainless Steel PTFEG Lined	-423 to 350	-253 to 177	850 psi @ 100°F (58.6 Bar @ 38°C); 100 psi @ 300°F (6.9 Bar @ 150°C)
Bronze (Solid Guide) (4)	-423 to 500 ⁽⁵⁾	- 253 to 260 ⁽⁵⁾	Same as Body
Alloy #6 (Solid Guide) ⁽⁶⁾	-423 to 1500	- 253 to 816	Same as Body

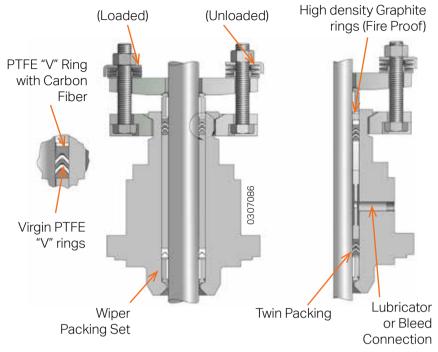
⁽³⁾ For oxidizing service such as air or oxygen, the maximum operation temperature is 800°F (426°C) ⁽⁴⁾ Solid bronze guides should not be used in corrosive applications or where the NACE certification is required. ⁽⁵⁾ For the upper guide, the temperature limit is 900°F (482°C). ⁽⁶⁾ Valves assembled with stainless steel trims of 300 series and lower guide in Alloy #6, the plug stem must be hardened with Alloy #6 application at the area in contact with the guide.

GLB - Body Subassembly Fugitive Emissions Control

PT Packing Set

The GLB Series PT packing set meets EPA* regulations in reference to fugitive emissions. Composed of virgin PTFE "V" rings combined with carbon fiber PTFE "V" rings, the PT packing set is compressed by a set of spring washers that causes a "live-loaded effect" and it is available for most of ValtekSul control valves, ensuring emissions levels lower than 500 ppm.

With a simple and easy to replace setting, the PT packing reduces the need for packing retighten caused by temperature and pressure variations. A fireproof version of the PT packing set is available as option, which ensures stem tightness even facing the damages that the excess heat can cause to the "V" rings.



Standard Assembly

Options

PT Packing Set

PTG and PTG-XT Packing Set

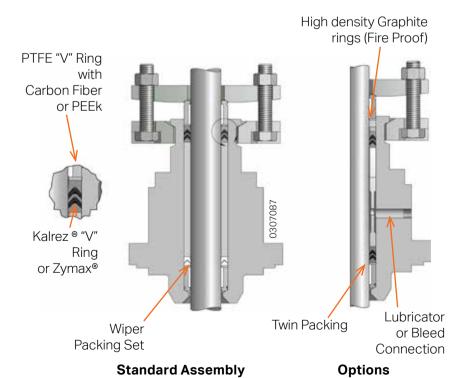
When the service temperature exceeds the required limits for PT packing or when it is expected greater reliability, the PTG packing is the ideal choice.

In response to EPA's regulations, the PTG packing ensures emissions even lower than 500 ppm (usually 10 ppm), making it a highly reliable and economic option to the use of metal sealed bellows.

The PTG packing set can be assembled in all ValtekSul valves, providing longer service life with reduced need for packing retighten.

Optionally, the PTG packing can be supplied in a fireproof version, according to the API 607 standards.

For higher service temperatures, the PTG XT version is indicated, the application limits are recorded in table on page 6.



PTG & PTG XT Packing

^{*} EPA = Environmental Protection Agency

GLB - Body Subassembly Seat Rings, Trim

Trim

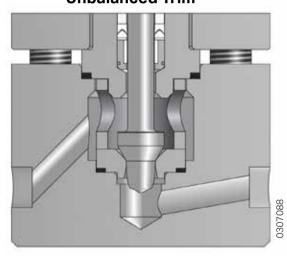
The GLB Series trims are designed to avoid the difficulties associated with screwed-in seats or guided plugs in seat retainers. The seat ring is not screwed-in but clamped into the body by the bonnet and seat retainer, thus its removal is easy, even when the valve is under extremely corrosive conditions

In the GLB Series, the flow characteristic is determined by the plug contour, rather than by the openings in the retainer.

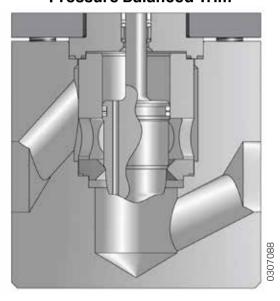
For services with high-pressure drops, pressure-balanced trims are used to reduce the thrust necessary to stroke the plug by reducing the trim off-balance area.

As an option, the GLB Series can be supplied with special trims for noise reductions and for cavitation regime services.

Unbalanced Trim



Pressure Balanced Trim



Pressure Balanced Plugs Seal Rings Materials Specification

Plugs Seal Rings Materials (1)	Temperatu	re Limits (2)	Sealing					
Flugs Seal Killys Materials	°F	°C	Metal Seat	Soft Seat				
PTFE Rings	0 to 350	-18 to 176	Up to 10% of Class IV	Up to 1% of Class IV				
Reinforced PTFE Rings	0 to 400	-18 to 204	Up to 10% of Class IV	Up to 1% of Class IV				
Buna N, O-Ring	-40 to 200	-40 to 93	Class IV or V	Class VI				
Viton A, O-Ring	-40 to 437	-40 to 225	Class IV or V	Class VI				
VMO for an Otto Alimahaa	300 to 1600	149 to 871	Class III	N/A				
VMG from 2 to 4 inches	300 to 1600	149 to 871	Class IV	N/A				

(1) When using VMG seal rings, the balanced retainer should be manufactured in hardened material. (2) Temperatures above are for guidance only. Contact ValtekSul to confirm the higher admitted temperature in relation to the service pressure.

Metal Seat Rings

The standard GLB valve setting, with unbalanced trims and metal seat ring, handles Class IV shutoff (ANSI B16.104/FCI 70.2), which calls for maximum permissible seat leakage of 0.01% of rated valve capacity.

Soft Seat Rings

Soft seats are used in applications that require extra tightness, according to ANSI Class VI (B16.104/FCI 70.2). GLB Series soft seat set consists of a polymer placed between two metal pieces, and it is interchangeable with the metal seat.

GLB - Body Subassembly Seat Rings, Trim

Trim

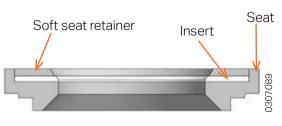
Unbalanced Trim and Standard Actuator Data

Valve Nominal	ANSI	Stem Diameter	Stem Area	Stroke	Standard
Diameter (in.)	Class	in.	in.²	in.	Actuator
0.50	150-2500	.57	.255	.75	25
0.75	150-2500	.57	.255	.75	25
1.0	150-2500	.57	.255	.75	25
1.5	150-2500	.89	.622	1.00	50
2.0	150-2500	.89	.622	1.00	50
	150-600	1.14	1.02	2.00	50
3.0	900-1500	1.52	1.814	2.00	100
	2500	1.14	1.02	1.50	100
	150-600		1.02	2.50	50
4.0	900-1500	1.52	1.814	2.50	100
	2500	1.52	1.814	2.00	100

Balanced Trim and Standard Actuator

Valve Nominal Diameter	ANSI Class	Stem Diameter	Stem Area	Stroke	Standard Actuator
(in.)	O.G.O.O	in.	in.²	in.	/totadtoi
	150-600	.57	.255	1.00	25
2.0	900-1500	.57	.255	1.00	50
	2500	.57	.255	1.00	50
	150-600	.89	.622	1.50	50
3.0	900-1500	.89	.622	2.00	100
	2500	.89	.622	1.50	100
	150-600	.89	.622	2.00	50
4.0	900-1500	1.14	1.02	2.00	100
	2500	1.14	1.02	2.00	100

Seat Rings



Soft Seat Assembly

Seat Surface Hardening



Full Surface Hardening



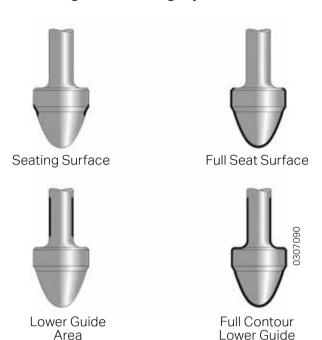
GLB Series - Seat Rings Options

GLB - Body Subassembly Trim Materials

Standard material for GLB Series plug, seat ring and seat retainer is 316 stainless steel, except for special alloy valves where trims are manufactured with the same material as the body. A wide variety of fluid is suitable to 316 stainless steel trims. Still, the general rule is that hardened trims should be employed for all conditions of critical flow or for temperatures above 600°F (316°C). For this cases, ValtekSul keeps a large stock of Alloy #6 trims, a material that offers a good combination of hardness and corrosion resistance.

Special alloys, such as Alloy #20, Monel, Hastelloy C, Hastelloy B, titanium and others are also available under request.

Plug Hard-facing Options



Differential Pressure Values that Require the Use of Hardened Trim

Valve		Wa	ter		Sat	Saturated Steam				Superheated Steam			General Process Fluids				Clean Gases			
Nominal Diameter	Control On-Off		Control On-Off		Off	Control Or		On-	Off	f Control		rol On-		Cor	Control		On-Off			
(in.)	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar	psi	Bar
0.5 to 1.5	175	12.1	250	17.2	100	6.9	200	13.8	300	20.7	600	41.4	175	12.1	250	17.2	600	41.4	900	62.1
2 & 3	150	10.3	200	13.8	25	1.7	50	3.4	200	13.8	300	20.7	150	10.3	200	13.8	350	24.1	600	41.4
4	100	6.9	125	8.6	Д	dl .	25	1.7	100	6.9	150	10.3	75	5.2	125	8.6	200	13.8	300	20.7

Trim Materials Characteristics

							,
Trim Materials	Hard- ness(R _c)		erature ation	Impact Resistance	Corrosion Resistance	Erosion Resistance	Abrasion Resistance
		٥F	٥С				
316 Stainless Steel	8	600	316	Excellent	Excellent	Reasonable	Reasonable
Alloy #6	44	1500	815	Excellent	Excellent	Good	Good
416 Stainless Steel	40	800	426	Good	Razoável	Good	Good
17-4 PH (H900)	44	800	426	Good	Good to Excellent	Good	Good
440C Stainless Steel	55-60	800	426	Reasonable	Reasonable	Excellent	Excellent
Monel K-500	32	600	316	Good	Good to Excellent	Reasonable to Good	Good
Tungsten	72	1200	650	Reasonable	Good with Bases, Poor with Acids	Excellent	Excellent
Colmonoy #5	45-50	1200	650	Good	Reasonable	Good	Good

GLB - Body Subassembly Flow Characteristics

Equal Percentage

Equal Percentage is the characteristic most commonly used in process control. The change in flow per unit of valve stroke is directly proportional to the flow occurring just before the change is made. When installed, a valve with Equal Percentage characteristic will produce in most control loops a characteristic that approaches Linear when the overall system pressure drop is large in relation to that of the valve.

Linear

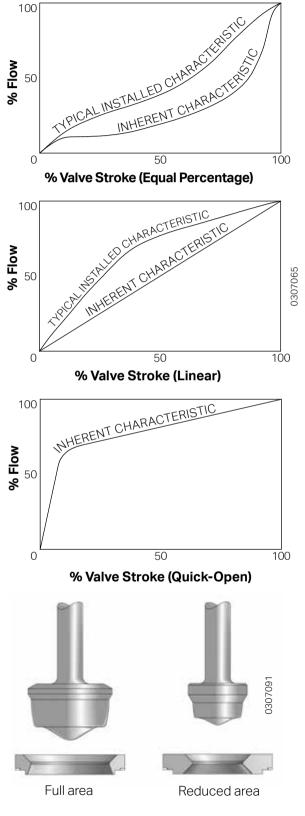
The Linear characteristic produces equal changes in flow per unit of valve stroke, despite of the plug position. Linear plugs are used on those systems where the valve pressure drop is a major portion of the total system pressure drop.

Quick-open

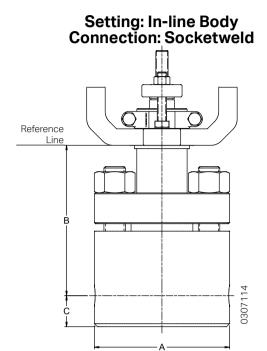
Quick-open plugs are used for on-off services and are designed to produce maximum flow increase, as earlier as the small opening percentage.

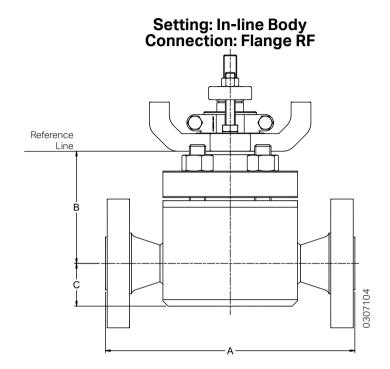
Trims size

Two trim options are normally available: the standard, with full passage area, and another with reduced passage, available in a variety of sizes, and requested when $C_{\rm v}$ values are relatively lower for a specific body size that will be used. As the GLB trims are completely interchangeable for a determined body diameter and pressure class, trim size and nominal $C_{\rm v}$ alteration is a simple operation.



Trims Size





Setting: In-line Body Connection: Socketweld

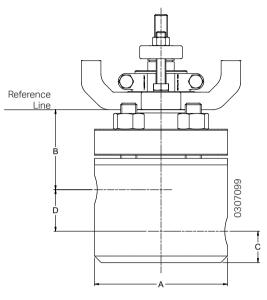
						Valve	e Nom	inal Di	iamete	er (in.)					
ANSI		1/2		3/4			1.0			1.5			2.0		
Class		Dimensions (in.)													
	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
150	5.51	4.06	1.18	5.51	4.25	1.46	5.51	4.25	1.46	7.99	5.39	2.52	7.99	5.51	3.15
300	5.51	4.06	1.18	5.51	4.25	1.46	5.51	4.25	1.46	7.99	5.39	2.52	7.99	5.51	3.15
600	5.51	4.06	1.18	5.51	4.25	1.46	5.51	4.25	1.46	7.99	5.39	2.52	7.99	5.51	3.15
900 & 1500	5.51	6.10	1.26	5.51	6.10	1.46	5.51	6.06	1.57	7.99	5.39	2.52	7.99	5.51	3.15
2500	6.50	7.24	1.38	6.50	7.13	1.46	6.50	7.44	1.46	7.99	8.94	2.52	7.99	8.66	3.74

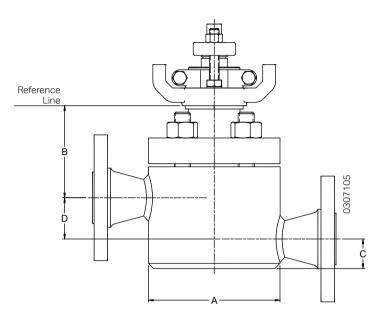
Setting: In-line Body Connection: Flange RF

						Valv	e Nom	inal Di	amete	er (in.)					
ANSI		1/2			3/4			1.0		1.5			2.0		
Class		Dimensions (in.)													
	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
150	8.50	4.06	1.18	8.62	4.25	1.46	8.74	4.25	1.46	11.61	5.39	2.52	11.38	5.51	3.15
300	8.86	4.06	1.18	9.02	4.25	1.46	9.25	4.25	1.46	12.13	5.39	2.52	11.89	5.51	3.15
600	9.37	4.06	1.18	9.49	4.25	1.46	9.76	4.25	1.46	12.76	5.39	2.52	12.60	5.51	3.15
900 & 1500	10.00	6.10	1.26	10.39	6.10	1.38	10.63	6.06	1.57	12.76	5.39	2.52	12.60	5.51	3.15
2500	12.00	7.24	1.38	12.13	7.13	1.38	12.87	7.44	1.46	15.98	8.94	2.52	16.89	9.65	3.74

Setting: Off-Set Body Connection: Socketweld







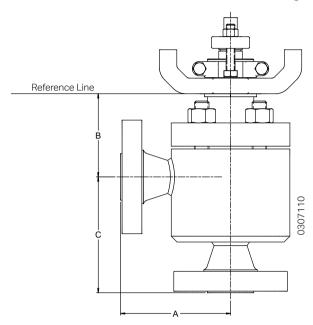
Setting: Off-Set Body Connection: Socketweld

		Valve Nominal Diameter (in.)																		
ANSI	1/2				3/4				1			1.5				2				
Class	Dimensions (in.)																			
	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D
150	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	5.63	3.50	1.61	2.87	5.63	3.50	2.00	2.87
300	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	5.63	3.50	1.61	2.87	5.63	3.50	2.00	2.87
600	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	4.37	2.95	1.18	1.69	5.63	3.50	1.61	2.87	5.63	3.50	2.00	2.87
900 & 1500	5.39	4.61	0.82	1.73	5.39	4.61	1.10	1.73	5.39	4.61	1.10	1.73	7.24	5.87	1.50	2.64	7.24	6.10	1.73	2.87
2500	6.38	5.51	1.00	2.00	6.38	5.51	1.00	2.00	6.38	5.51	1.00	2.00	7.76	6.93	1.57	2.80	7.76	7.20	1.93	2.76

Setting: Off-Set Body Connection: Flange RF

		Valve Nominal Diameter (in.)																		
ANSI	1/2				3/4				1			1.5				2				
CLass	Dimensions (in.)																			
	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D	Α	В	С	D
150	7.48	2.95	1.18	1.69	7.48	2.95	1.18	1.69	7.76	2.95	1.18	1.69	9.60	3.50	1.61	2.87	9.25	3.50	2.00	2.87
300	7.87	2.95	1.18	1.69	7.87	2.95	1.18	1.69	8.27	2.95	1.18	1.69	10.12	3.50	1.61	2.87	9.76	3.50	2.00	2.87
600	8.39	2.95	1.18	1.69	8.39	2.95	1.18	1.69	8.74	2.95	1.18	1.69	10.75	3.50	1.61	2.87	10.51	3.50	2.00	2.87
900 & 1500	10.00	4.61	0.82	1.73	10.00	4.61	0.82	1.73	10.63	4.61	1.18	2.00	13.27	5.87	1.61	2.87	14.37	6.10	1.77	2.87
2500	12.00	5.31	1.00	2.00	12.00	5.31	1.00	2.00	12.87	5.31	1.18	2.13	15.98	6.89	1.61	2.87	16.89	7.20	2.00	2.87

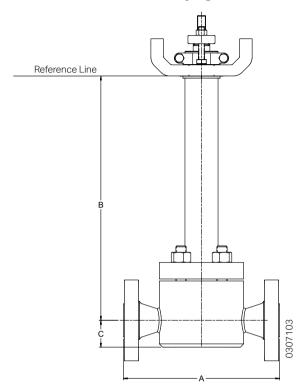
Setting: Angle-style Body Connection: Flange RF



Setting: Angle-style Body Connection: Flange RF

		Valve Nominal Diameter (in.)													
ANSI	1/2			3/4			1			1.5					
Class	Dimensions (in.)														
	Α	В	С	Α	В	С	Α	В	С	Α	В	С	Α	В	С
150	3.74	2.95	3.93	3.74	2.95	3.93	3.90	2.95	4.05	4.80	3.50	5.55	4.80	3.50	5.71
300	3.94	2.95	4.13	3.94	2.95	4.13	4.13	2.95	4.29	5.08	3.50	5.83	5.08	3.50	5.95
600	4.17	2.95	4.37	4.17	2.95	4.37	4.37	2.95	4.57	5.35	3.50	6.10	5.35	3.50	6.30
900 & 1500	5.20	4.61	4.61	5.20	4.61	5.12	5.31	4.61	5.24	6.61	5.87	6.26	7.20	6.10	7.20
2500	6.06	5.51	5.24	6.06	5.51	5.39	6.46	5.51	5.75	7.99	6.93	7.36	8.43	7.17	8.27

Setting: In-line Body Use: Cryogenics



Valve		Dimension B (mm)											
Size	ANSI Class			Extension No	minal Size (in.))							
(in.)	Class	8	12	16	22	28	34						
	150-600	11.93	13.90	19.80	25.71	31.61	37.52						
1/2	900-1500	13.98	15.94	21.85	27.76	33.66	39.57						
	2500	15.12	17.09	23.00	28.90	34.80	40.71						
	150-600	12.13	14.09	20.00	25.90	31.81	37.72						
3/4	900-1500	13.98	15.95	21.85	27.76	33.66	39.57						
	2500	15.00	16.97	23.00	28.90	34.68	40.59						
	150-600	12.13	14.09	20.00	25.90	31.81	37.72						
1	900-1500	13.98	15.95	21.85	27.76	33.66	39.56						
	2500	15.31	17.28	23.19	29.10	35.00	40.90						
	150-600	13.27	15.24	21.14	27.04	32.95	38.85						
1.5	900-1500	13.27	15.24	21.14	27.04	32.95	38.85						
	2500	16.81	18.78	24.68	30.59	36.50	42.40						
	150-600	13.39	15.35	21.26	27.16	30.07	38.98						
2	900-1500	13.39	15.35	21.26	27.16	30.07	38.98						
	2500	17.52	19.49	25.39	31.30	37.20	43.10						

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